

Title (en)

STAGED DUAL FUEL RADIAL NOZZLE WITH RADIAL LIQUID FUEL DISTRIBUTOR

Title (de)

GESTUFTE DOPPELRENNSTOFFRADIALDÜSE MIT RADIALEM FLÜSSIGRENNSTOFFVERTEILER

Title (fr)

BUSE RADIALE ÉTAGÉE À DEUX CARBURANTS COMPORTANT UN DISTRIBUTEUR DE CARBURANT LIQUIDE RADIAL

Publication

**EP 3336433 A3 20181031 (EN)**

Application

**EP 17206885 A 20171213**

Priority

US 201615382112 A 20161216

Abstract (en)

[origin: EP3336433A2] A nozzle (100) includes a nozzle body (102) defining a longitudinal axis (A) and including a primary distributor (104) and a secondary distributor (108). The primary distributor (104) has an inner air passage (108) fed by a radial swirler (110); a first fuel circuit (112) radially outboard from the inner air passage (108) with respect to the longitudinal axis (A); a second fuel circuit (114) radially outboard from the first fuel circuit (112) with respect to the longitudinal axis (A), wherein each of the first fuel circuit (112) and the second fuel circuit (114) extends from a respective fuel circuit inlet (116, 118) to a respective annular fuel circuit outlet (120, 122); and an outer air passage (120) defined between a fuel circuit outer wall (126) and an outer air passage wall (128), wherein the outer air passage (120) is a converging non-swirling outer air passage (120). The secondary distributor (108) similar to the primary distributor (104) is downstream of the primary distributor (104) with respect to the longitudinal axis (A).

IPC 8 full level

**F23R 3/14** (2006.01); **F23D 11/10** (2006.01); **F23D 11/38** (2006.01); **F23D 14/24** (2006.01); **F23R 3/10** (2006.01); **F23R 3/34** (2006.01);  
**F23R 3/54** (2006.01)

CPC (source: EP US)

**F23D 11/10** (2013.01 - EP US); **F23D 11/38** (2013.01 - EP US); **F23D 14/24** (2013.01 - EP US); **F23R 3/10** (2013.01 - EP US);  
**F23R 3/14** (2013.01 - EP US); **F23R 3/286** (2013.01 - EP US); **F23R 3/346** (2013.01 - EP US); **F23R 3/36** (2013.01 - EP US);  
**F23R 3/54** (2013.01 - EP US); **F23D 11/105** (2013.01 - EP US); **F23D 11/383** (2013.01 - EP US); **F23D 2900/11101** (2013.01 - EP US)

Citation (search report)

- [AD] US 2016290649 A1 20161006 - PROCIW LEV ALEXANDER [US]
- [A] US 2016290291 A1 20161006 - PROCIW LEV A [US]
- [A] US 2011089262 A1 20110421 - THOMSON NEAL A [US], et al

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

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US 10344981 B2 20190709; US 2018172275 A1 20180621

DOCDB simple family (application)

**EP 17206885 A 20171213;** JP 2017241328 A 20171218; US 201615382112 A 20161216